=> fil reg; d stat que 112 "FILE 'REGISTRY" ENTERED AT 10:27:38 ON 16 FEB 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

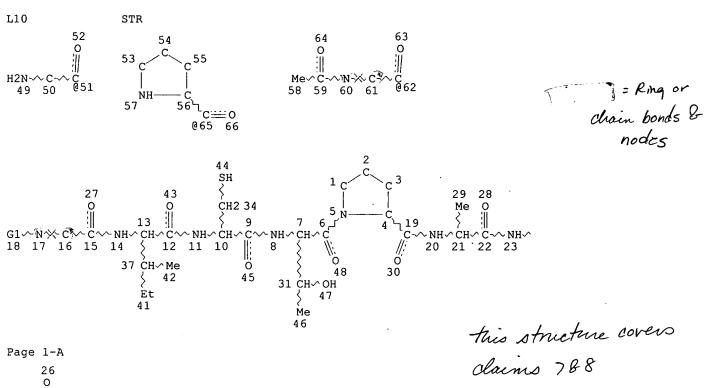
STRUCTURE FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5 DICTIONARY FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html



Page 1-B VAR G1=51/65/62 NODE ATTRIBUTES: NSPEC IS RC AT 16 NSPEC IS RC AΤ 17 NSPEC IS RC ΑT 60 NSPEC IS RC ΑТ 61

Searched by Barb O'Bryen, STIC 2-2518

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 59
STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 202773 ITERATIONS
                                                               1 ANSWERS
SEARCH TIME: 00.00.03
=> d sqide 112 |
L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
     318238-72-1 REGISTRY
RN
     L-Arginine, glycyl-L-lysyl-L-isoleucyl-L-cysteinyl-L-threonyl-L-prolyl-L-
     alanylglycyl-L-valyl-L-lysyl-L-cysteinyl-L-prolyl-L-alanyl-L-alanyl-L-
     leucyl-L-prolyl-L-cysteinyl-L-cysteinyl-L-prolylglycyl-L-leucyl-L-arginyl-
     L-cysteinyl-L-isoleucylglycylglycyl-L-valyl-L-asparaginyl-L-asparaginyl-L-lysyl-L-valyl-L-cysteinyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
     2: PN: WOO100841 SEQID: 2 claimed sequence
     41: PN: WO02098911 SEQID: 41 unclaimed sequence
CN
     PROTEIN SEQUENCE; STEREOSEARCH
FS
SQL 33
PATENT ANNOTATIONS (PNTE):
Sequence | Patent
Source |Reference
Not Given | WO2001000841
         |claimed
         |SEQID 2
SEQ _____ GKICTPAGVK CPAALPCCPG LRCIGGVNNK VCR 2
MF C138 H240 N44 O37 S6
                 CA, CAPLUS, TOXCENTER, USPATFULL
     STN Files:
DT.CA CAplus document type: Patent
       Roles from patents: BIOL (Biological study); PREP (Preparation); PRP
       (Properties); USES (Uses)
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Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

PAGE 1-C

PAGE 1-D

PAGE 1-E

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil capl uspatf toxcenter; s 112

FTIECAPIUS** ENTERED AT 10:28:09 ON 16 FEB 2005

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<u>CEILE 'USPATFULE'</u> ENTERED AT 10:28:09 ON 16 FEB 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 10:28:09 ON 16 FEB 2005 COPYRIGHT (C) 2005 ACS

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-L13 5 L12
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=> dup rem 113 3

PROCESSING COMPLETED FOR L13

3 DUP REM L13 (2 DUPLICATES REMOVED) > ANSWERS '1-2' FROM FILE CAPLUS

ANSWER '3' FROM FILE USPATFULL

/-=> d ibib ed abs hitrn 1-3; fil hom

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2002:946316 CAPLUS

DOCUMENT NUMBER: 138:20492

TITLE: Synthetic insecticidal proteins and synergistic

combinations thereof for production of transgenic

plants which are resistant to insect Vincent, Jason Leigh; Viner, Russell

INVENTOR(S): PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

P.F	PATENT NO.						KIND DATE			APPLICATION NO.						DATE					
					A2 20021212 A3 20030410			,	WO 2	002-	GB26	20020530									
		AE, CO,	AG, CR,	AL, CU,	AM, CZ,	AT, DE,	AU, DK,		DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,				
		LS, PL,	LT, PT,	LU, RO,	LV, RU,	MA, SD,	MD, SE,	MG, SG,	MK, SI,	MN, SK,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,				
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	ZA, SD, AT,	SL,	SZ,	-	-	-		•	•					
		GR,	ΙE,	IT,	LU,	MC,	NL,	PT, SN,	SE,	TR,	•		•	•	•		•				
CF	4 2445	2445748					AA 20021212				CA 2002-2445748						20020530				
E	2 1399	1399473				A2 20040324				EP 2002-732931						20020530					
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,				
		ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL,	TR										
US	US 2004250313						20041209			US 2004-478243					20040423						
PRIORIT	PRIORITY APPLN. INFO.:									GB 2 WO 2					A 2	0010 0020					

ED Entered STN: 13 Dec 2002

Invention relates to insecticidal peptides which are suitable for expression in plants. The invention provides synthetic insecticidal proteins which are capable of acting synergistically with further proteins, in particular insecticidal crystal endotoxin (CRY) and vegetative insecticidal protein (VIP) proteins. The insecticidal proteins of invention comprises an X-glycine (X-G) motif at the N-terminus, wherein X is any amino acid and wherein the insecticidal protein has at least 55% identity with a protein having the sequence XGKICTPAGVKCPAALPCCPGLRCIGGVNN KVC. The present invention further provides and insecticidal protein variant which contains a motif depicted as -LPCCPG- and/or -ICTPA-. Also provided are polynucleotides encoding the proteins and plants which are capable of producing the proteins or protein combination. The proteins according to the invention are particularly suitable for the production of plants which are resistant and/or tolerant to insects.

TΨ 318238-72-1 RL: PRP (Properties)

(unclaimed sequence; synthetic insecticidal proteins and synergistic combinations thereof for production of transgenic plants which are resistant to insect)

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER:

2001:12635 CAPLUS

DOCUMENT NUMBER:

INVENTOR(S):

134:96263

TITLE:

Protein and cDNA sequences of a novel insecticidal endotoxin protein CRY from Paecilomyces farinosus Griffin, Jonathan; Carlile, Amanda Jane; Cayley, Patricia Jane; MacKay, Elaine Anne; Warner, Simon Anthony James; Vincent, Jason Leigh; Lee, Michael

David

PATENT ASSIGNEE(S):

SOURCE:

Zeneca Limited, UK PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.						KIND DATE			APPLICATION NO.						DATE			
	WO	WO 2001000841					_	20010104		WO 2000-GB2457						20000623			
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
			CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	
			ΗU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	
			LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝZ,	PL,	PT,	RO,	RU,	
			SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	
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	EP 1196585					A1 20020417				EP 2000-940623						20000623			
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	JP 2003503060							2003	0128	JP 2001-506833						20000623			
PRIC	PRIORITY APPLN. INFO.:										GB 1	999-	1521	5		A 1	9990	629	
											GB 1	999-	3053	6		A 1	9991	223	
											WO 2	000-	GR24	57	1	W 2	0000	623	

Entered STN: 05 Jan 2001

AB The present invention relates to insecticidal proteins, in particular proteins obtainable from Paecilomyces sp. such as Paecilomyces farinosus. In a preferred embodiment the invention provides insecticidal proteins having the amino acid sequence depicted as SEQ ID Number 1. The invention also provides an insecticidal synergistic protein combination comprising a first insecticidal protein according to the invention in combination with a further protein. Preferably the further protein is an insecticidal crystal endotoxin (CRY) protein. Also provided are polynucleotides encoding the proteins and plants which are capable of producing the proteins or protein combination.

318238-72-1P

RL: AGR (Agricultural use); BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses) (amino acid sequence; protein and cDNA sequences of a novel

REFERENCE COUNT:

insecticidal endotoxin protein CRY from Paecilomyces farinosus) THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:316631 USPATFULL

TITLE:

3

Insecticidal proteins and synergistic combinations

. INVENTOR(S): Vincent, Jason Leigh, Bracknell, UNITED KINGDOM

Viner, Russell, Bracknell, UNITED KINGDOM

Rooke 10/019823

Page 7

NUMBER DATE

PRIORITY INFORMATION:

GB 2001-13900

20010607

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

SYNGENTA BIOTECHNOLOGY, INC., PATENT DEPARTMENT, 3054

CORNWALLIS ROAD, P.O. BOX 12257, RESEARCH TRIANGLE

PARK, NC, 27709-2257

NUMBER OF CLAIMS:

59 1

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

3 Drawing Page(s)

LINE COUNT:

2047

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to insecticidal proteins. In a particular embodiment the invention provides an insecticidal protein having the amino acid sequence depicted as SEQ ID Number 1. The invention also provides an insecticidal synergistic protein combination comprising a first insecticidal protein according to the invention in combination with a further protein. Preferably the further protein is an insecticidal crystal endotoxin (CRY) protein Also provided are polynucleotides encoding the proteins and plants which are capable of producing the proteins or protein combination. The proteins according to the invention are particularly suitable for the production of plants which are resistant and/or tolerant to insects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 318238-72-1

(unclaimed sequence; synthetic insecticidal proteins and synergistic combinations thereof for production of transgenic plants which are resistant to insect)

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